

CLAIMS:

1. A visual content signal display apparatus (100) comprising:
means (101) for receiving a visual content signal;
means (103) for presenting the visual content signal on a primary display (105);
5 means (107) for extracting background content information from the visual content signal;
means (109) for generating a surround image in response to the background content information; and
means (111) for displaying the surround image on a secondary display area thereby providing a combined display having an increased viewing angle.
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2. A visual content signal display apparatus as claimed in claim 1 wherein the means (111) for displaying the surround image is operable to project the surround image on to an external surface of an object.
- 15 3. A visual content signal display apparatus as claimed in claim 2 wherein the external surface is an internal surface of a room.
4. A visual content signal display apparatus as claimed in claim 1 wherein the means (107) for extracting is operable to extract real time background content information
20 from the visual content signal, and the means (109) for generating the surround image is operable to generate a real time surround image in response to the real time background content information.
- 25 5. A visual content signal display apparatus as claimed in claim 1 wherein the means (107) for extracting is operable to extract the background content information in response to background meta-data comprised in the visual content signal.

6. A visual content signal display apparatus as claimed in claim 1 wherein the means (107) for extracting is operable to extract the background content information in response to a content analysis of the visual content signal.

5 7. A visual content signal display apparatus as claimed in claim 6 wherein the content analysis comprises image object recognition.

10 8. A visual content signal display apparatus as claimed in claim 7 wherein the means (109) for generating a surround image is operable to perform motion estimation of an image object and to generate the surround image in response to the motion estimation.

15 9. A visual content signal display apparatus as claimed in claim 1 wherein the background content information comprises a visual characteristic of an image section of the visual content signal proximal to an edge of the primary display; the means (109) for generating the surround image is operable to generate at least a partial surround image having a corresponding visual characteristic; and the means (111) for displaying the surround image is operable to display the partial surround image proximal to the edge.

20 10. A visual content signal display apparatus as claimed in claim 1 wherein the means (109) for generating a surround image is operable to generate the surround image in response to a predetermined image associated with the background content information.

25 11. A visual content signal display apparatus as claimed in claim 10 wherein the means (109) for generating the surround image is operable to generate the surround image in response to a predetermined default image if no valid background content information is determined.

30 12. A visual content signal display apparatus as claimed in claim 1 wherein the means (109) for generating the surround image is operable to generate the surround image at a lower quality than a quality of the display of the content signal on the primary display.

13. A visual content signal display apparatus as claimed in claim 1 wherein the means (109) for generating the surround image is operable to generate the surround image with a quality that decreases for increasing distance from the primary display.

14. A visual content signal display apparatus as claimed in claim 1 wherein the means (109) for generating the surround image is operable to generate the surround image in response to characteristics of a viewing environment associated with the secondary display area.
15. A visual content signal display apparatus as claimed in claim 1 further comprising means for determining a category of the visual content signal and wherein the means (109) for generating the surround image is operable to generate the surround image processing in response to the category.
16. A method of displaying a visual content signal comprising the steps of:
receiving a visual content signal;
presenting the visual content signal on a primary display (105);
extracting background content information from the visual content signal;
generating a surround image in response to the background content information; and
displaying the surround image on a secondary display area thereby providing a combined display having an increased viewing angle.
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17. A computer program enabling the carrying out of a method according to claim 16.
18. A record carrier comprising a computer program as claimed in claim 17.